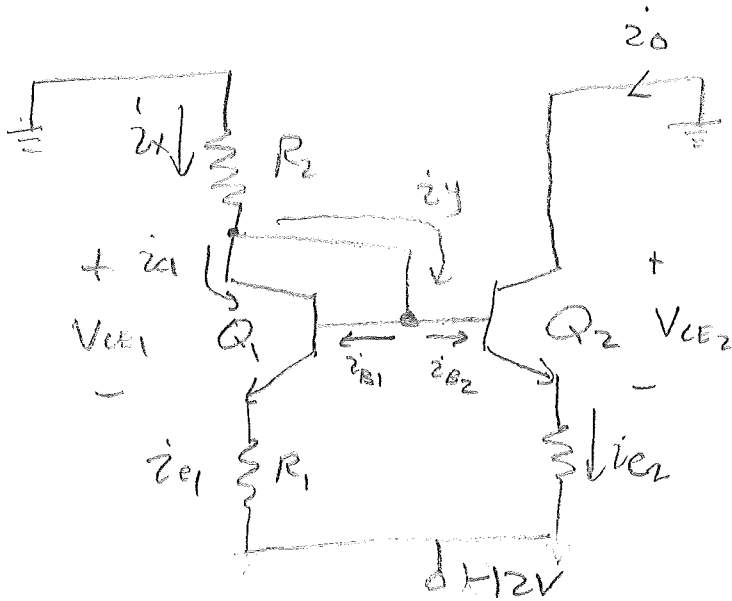
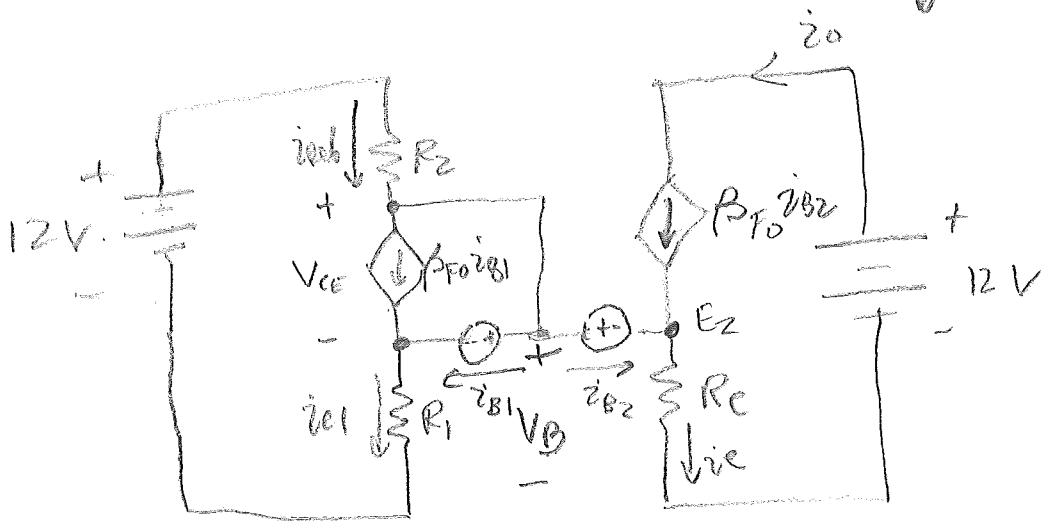


Quiz 5 Sol'n:

if student assumes
 $i_{B1} = i_{B2}$ with everything correct
8/10



Eke
+10 with everything correct
8/10



$$-12V + i_{e2} R_2 + V_{CE} + i_e R_1 = 0$$

$$[1] = i_{e2} R_2 + i_e R_1$$

$$1 = i_{B1} \beta_{F0} R_2 + (i_{B1} \beta_{F0} + i_{B1}) R_1$$

Solve for i_{B1}

having i_{B1}

Solve for V_B

$$V_B = i_e R_1 + 1$$

$$V_{E2} = V_B - 1$$

$$i_e = V_{E2} / R_e$$

$$[i_e = i_o]$$